

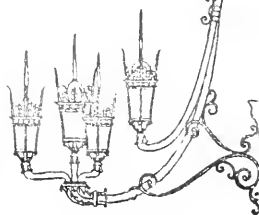
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BOSTON REDEVELOPMENT AUTHORITY

WASHINGTON PARK URBAN RENEWAL AREA
Project No. MASS. R-24

REPORT - PART I

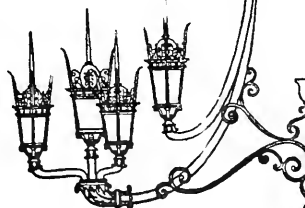
ON

FEASIBILITY OF PLACING UTILITY SERVICES UNDERGROUND

FAY, SPOFFORD & THORNDIKE, INC.
Engineers
Boston, Massachusetts

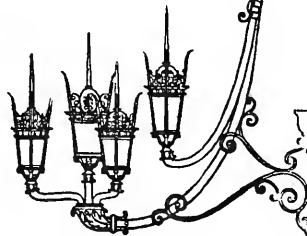
October, 1964

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BOSTON
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CITY OF BOSTON AND COUNTY OF SUFFOLK

DEPARTMENTAL COMMUNICATION

May 4, 19 65

	(NAME)	(RATING)	(DEPARTMENT-DIVISION)
	Frederick L. Garvin	Division Engineer	Engineering Division
OM	James W. Haley	Commissioner	Public Works Department

SUBJECT: Utilities - Edison etc.
Washington Park

FILE REF. NO.


If you ever made any sense of this report, I would appreciate you and Thornquist enlightening me.

I have gone over it several times and end up no where - but there is a suggestion that new U.G. (underground) be installed here and there.

Therefore, we are responsible to make sure it is done (if it is to be done) before street construction.

Please advise.

JWH:ag



February 5, 1965

Commissioner James W. Haley
Public Works Department
Administration Services
City Hall Annex
Boston, Massachusetts 02109

Dear Commissioner Haley:

In the Washington Park Project we propose to place all utilities underground in areas where new construction is taking place. In areas which have rehabilitation, the private utility wiring will remain where it is. This distinction is for reasons of cost considerations only.

Although it is premature to say, we would hope to follow the same progress in our other residential areas.

To put it another way, where we have clearance sufficient for substantial new construction, we would propose to put all wiring underground otherwise to leave it alone.

If there is any further information you need in this regard, do not hesitate to be in touch with me.

Sincerely,

EJL/hrc

Edward J. Logue

cc: Mayor John F. Collins
Messrs. Rowland, McGrath, Green,
Tercyak, DelVecchio, DeSimone

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ENGINEERS

BRIDGES AND OTHER STRUCTURES
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INDUSTRIAL BUILDINGS
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11 BEACON STREET • BOSTON, MASSACHUSETTS 02108

Area Code 617 • 523-8300

VALUATIONS
INVESTIGATIONS, DESIGNS
SUPERVISION OF CONSTRUCTION

October 22, 1964

Mr. Wallace B. Orpin, Chief Engineer
Boston Redevelopment Authority
20 Pemberton Square
Boston, Massachusetts 02108

Dear Mr. Orpin:

We are pleased to submit herewith our report on the feasibility of placing power, telephone, fire alarm and police signal systems underground or along rear lot lines in Priority Areas No. 1, No. 2, No. 3 and No. 4, Washington Park, Roxbury, Project No. Mass. R-24. This report is in accordance with your letter of authorization dated September 16, 1964, and Section 15.2 of the agreement dated June 1964, between the Boston Redevelopment Authority and Fay, Spofford & Thorndike, Inc.

In accordance with the above letter of authorization, feasibility and costs for underground power and telephone house connections have not been included in the report.

In accordance with verbal instructions, we shall hold in abeyance work on areas other than the priority areas pending further authorization by the Authority.

The report is largely the result of work done by or under the direction of Mr. E. S. Warner, head of our Electrical Department, with general coordination by Mr. D. M. Thornquist, Engineer on our staff who is designated Project Engineer on our work for the Authority.

Very truly yours,

FAY, SPOFFORD & THORNDIKE, INC.

By

EC/Keane

ECKeane:mtm
Lg-16(a)
Enclosure

BOSTON REDEVELOPMENT AUTHORITY

WASHINGTON PARK URBAN RENEWAL AREA
Project No. MASS. R-24

REPORT - PART I
ON
FEASIBILITY OF PLACING UTILITY SERVICES UNDERGROUND

FAY, SPOFFORD & THORNDIKE, INC.
Engineers
Boston, Massachusetts

October, 1964

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REPORT

A. SCOPE

This report covers the feasibility of placing power, telephone, fire alarm and police signal systems underground or along rear lot lines wherever economically justified or required by new street construction.

A separate report is being prepared for the City of Boston Public Works Department on the street lighting system in all of Washington Park Urban Renewal Area R-24 stating recommendations and estimated costs of the work; therefore, street lighting, except as required for coordination purposes, is not covered in this report. Another separate report is being prepared covering recommended improvements to streets. Our recommendations regarding utilities in particular streets are somewhat dependent on whether street reconstruction is intended.

This report covers only the streets in Priorities No. 1, No. 2, No. 3 and No. 4 as set up in BRA Memorandum 309 dated August 14, 1964. A supplementary report, "REPORT - PART II," will be prepared covering streets outside the four above-mentioned priority areas, as requested in BRA letter to Fay, Spofford & Thorndike, Inc., dated September 16, 1964.

On all new streets, private utilities owned by the Boston Edison Company and the New England Telephone and Telegraph Company, and municipal services consisting of fire alarm and police signal systems owned by the City of Boston, will be installed underground in duct and manhole system.

A. SCOPE (Cont.)

All fire alarm and police signal system extensions, regardless of street work recommended, will be installed underground in ducts or in duct and manhole system.

The cost estimates in this report do not cover the cost of house connections of underground electric and telephone services but only services in public ways up to private property lines.

B. SUMMARY OF COSTS

Priority No. 1

Costs

Power Distribution System	\$311,485.00	
Telephone System	95,075.00	
Fire Alarm System	35,260.00	
Police Signal System	<u>31,475.00</u>	\$473,295.00

Priority No. 2

Power Distribution System	\$ 72,100.00	
Telephone System	8,000.00	
Fire Alarm System	4,600.00	
Police Signal System	<u>-</u>	84,700.00

Priority No. 3

Power Distribution System	\$ 41,550.00	
Telephone System	-	
Fire Alarm System	51,425.00	
Police Signal System	<u>25,625.00</u>	118,600.00

Priority No. 4

Power Distribution System	\$256,100.00	
Telephone System	18,950.00	
Fire Alarm System	14,150.00	
Police Signal System	<u>-</u>	289,200.00
	Total	\$965,795.00

Power Distribution System	Priority Nos. 1, 2, 3 & 4	\$681,235.00
Telephone System	Priority Nos. 1, 2, 3 & 4	122,025.00
Fire Alarm System	Priority Nos. 1, 2, 3 & 4	105,435.00
Police Signal System	Priority Nos. 1, 2, 3 & 4	<u>57,100.00</u>
	Total	\$965,795.00

C. TABULATION OF STREETS, PRESENT SERVICES, RECOMMENDED
SERVICES AND COST ESTIMATES

The tabulation for Priorities No. 1, No. 2, No. 3 and No. 4 which follows shows the various streets in each priority area, their length, roadway and sidewalk width, present utility and municipal services, recommended utility and municipal services, and cost estimates for recommended services.

The legends used in the tabulation are as follow:

R	- Repaving of Roadway
O	- Overlaying of Roadway
S	- Sanitary or Storm Sewer
W	- Water Mains
N. S. I.	- No Street Improvements
UG-D	- Underground Duct and Manhole System
UG-SF	- Underground Split Fiber System
O. H.	- Overhead Construction on Street
O. H. -B. L.	- Overhead Construction, Back Lot
N. C.	- No Change

Because of varied conditions on the different streets and even on portions of the same street, the data require explanations and clarifications which are included in the text following the tabulation.

[illegible]

* CHILD PRESENT IN REPORT

TE. BY THE VICTOR LOUFT F.F. NEW TREETS

RECOMMENDED

COST OF RECOMMENDED SERVICES

SPRINGFIELD	WARREN	END	1261'	7-26-7	8	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O
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PRIORITY NO. 3 TOTAL 41.55 - 51.425 25.625 118.600

* SEE COMMENT IN REPORT
 * DENOTES EXISTING STREET WIDTHS

										RECOMMENDED SERVICE*				LIST OF FREQUENCED SERVICES			
STREET	ADDRESS	CITY	ZIP	DATE	TYPE	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
WALNUT AVE.	HOLLANDER	HOLLANDER	2751	7-26-7		O.H.	U.G.-D	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	-	13,750
WALNUT AVE.	HOLLANDER	HOLLANDER	2251	7-26-7		O.H.	U.G.-D	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	-	11,250
WALNUT AVE.	HOLLANDER	HOLLANDER	4701	7-26-7		O.H.	O.H.	O.H.	-	-	U.G.-D	U.G.-D	O.H.-B.L.	-	-	-	24,700
WALNUT AVE.	HOLLANDER	HOLLANDER	7001	7-26-7		O.H.	U.G.-D	O.H.-B.L.	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	35,000
WALNUT AVE.	HOLLANDER	HOLLANDER	2351	7-26-7	NE TRAIL	-	-	-	-	-	U.G.-D	U.G.-D	U.G.-D	-	-	-	16,450
WALNUT AVE.	HOLLANDER	HOLLANDER	2351	7-26-7	NE TRAIL	-	-	-	-	-	U.G.-D	U.G.-D	U.G.-D	-	-	-	16,450
WALNUT AVE.	HOLLANDER	HOLLANDER	3001	7-26-7	R	U.G.-D	U.G.-D	O.H.-B.L.	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	15,000
WALNUT AVE.	HOLLANDER	HOLLANDER	2351	7-26-7	R	U.G.-D	U.G.-D	O.H.-B.L.	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	15,000
WALNUT AVE.	HOLLANDER	HOLLANDER	3301	7-26-7	R	U.G.-D	U.G.-D	O.H.-B.L.	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	16,500
WALNUT AVE.	HOLLANDER	HOLLANDER	4001	7-26-7	O	U.G.-D	U.G.-D	O.H.-B.L.	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	20,750
WALNUT AVE.	HOLLANDER	HOLLANDER	4301	7-26-7	N.C.	U.G.-D	U.G.-D	O.H.-B.L.	-	-	N.C.	N.C.	N.C.	U.G.-D	-	-	3,200
HOLLANDER	ROAD "H"	ROAD "H"	4101	7-26-7	R	O.H.	O.H.	O.H.-B.L.	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	10,500
HOLLANDER	ROAD "H"	ROAD "H"	3501	7-26-7	R	U.G.-D	U.G.-D	O.H.-B.L.	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	17,500
HOLLANDER	WALNUT AVE.	HOLLANDER	441	7-26-7	R	U.G.-D	U.G.-D	O.H.-B.L.	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	22,000
HOLLANDER	HOLLANDER	ROAD "H"	3751	7-26-7	R	U.G.-D	U.G.-D	O.H.-B.L.	-	-	U.G.-D	U.G.-D	N.C.	-	-	-	8,750
HOLLANDER	HOLLANDER AVE.	ROAD "H"	5301	7-26-7	O	U.G.-D	U.G.-D	O.H.-B.L.	-	-	N.C.	N.C.	N.C.	-	-	-	-
ROAD "H"	HOLLANDER	HOLLANDER	2151	7-26-7	NE TRAIL	-	-	-	-	-	U.G.-D	U.G.-D	U.G.-D	-	-	-	14,700
WALNUT AVE.	HOLLANDER	HOLLANDER	2411	8-30-46-5	O-H	U.G.-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	N.C.	N.C.	N.C.	N.C.	N.C.	-	-
WALNUT AVE.	HOLLANDER	HOLLANDER	2101	8-30-46-8	O-H	U.G.-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	N.C.	N.C.	N.C.	N.C.	N.C.	-	-
WARREN	WALNUT AVE.	HOLLANDER	491	9-35-50-9	R-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	N.C.	N.C.	N.C.	N.C.	N.C.	-	-
WARREN	WALNUT AVE.	HOLLANDER	2501	9-35-50-9	R-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	N.C.	N.C.	N.C.	N.C.	N.C.	-	-
WARREN	HOLLANDER	HOLLANDER	371	9-35-50-9	R-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	N.C.	N.C.	N.C.	N.C.	N.C.	-	-
WARREN	HOLLANDER	HOLLANDER	3501	9-35-50-9	R-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	U.G.-D	N.C.	N.C.	N.C.	N.C.	N.C.	-	-

* SEE FREQUENTLY IN REPAIR
 (1) SEE FREQUENTLY IN REPAIR, EXCEPT FOR NEW TRAIL.

* L2 DIFFERENTIAL IN EFFECT
OF THE FILLING WIDTH.

C. TABULATION OF STREETS, PRESENT SERVICES, RECOMMENDED SERVICES AND COST ESTIMATES (Cont.)

The following explanations and clarifications of the preceding tabulation are listed by priority number and street sections:

Priority No. 1

Charlame Street - Laurel Street to Catawba Street

All work is now under contract.

Munroe Street - Hazelwood Street to Warren Street

Munroe Street - Humboldt Avenue to Harold Street

Munroe Street - Harold Street to Walnut Avenue

In the three sections of Munroe Street listed above, no street improvements are recommended. On two sections of Munroe Street, the existing fire alarm system will be extended underground. In the absence of street improvements, it is our recommendation that the overhead power lines and telephone lines remain overhead on Munroe Street. If street repairs are undertaken, the utilities should then be placed underground.

The cost of converting overhead power lines to underground duct and manhole system would be \$88,000 for the 1760 feet of street. In addition to this cost, there would be the cost of placing 1410 feet of overhead telephone service underground which would amount to \$35,250 and make the total cost \$123,250.

Walnut Avenue - Washington Park Boulevard to Munroe Street

On Walnut Avenue, the only recommended street improvement is a pavement overlay. The power services are now underground in split

C. TABULATION OF STREETS, PRESENT SERVICES, RECOMMENDED SERVICES AND COST ESTIMATES (Cont.)

fiber ducts with conduit laterals. Information from the Boston Edison Company indicates that the existing split fiber construction for their underground lines has given them very little trouble; however, all new construction is duct and manhole system. Since the only street improvement recommended at this time is an overlay, it is our recommendation that no change be made in the power service on this portion of Walnut Avenue. When major street improvements are made, the utility services can be converted to a duct and manhole system.

The cost of converting from a split fiber duct system to a duct and manhole system, without any visible improvement to the street, would be \$27,500 for the 550 feet of street.

Priority No. 2

Catawba Street - Laurel Street to New Sherman Street

On Catawba Street, there are two systems of power services of which 340 feet is in an underground duct and manhole system and 190 feet is overhead. Even though there are no street improvements contemplated on this street, it is our recommendation to change the 190 feet of overhead construction to an underground duct and manhole system.

C. TABULATION OF STREETS, PRESENT SERVICES, RECOMMENDED SERVICES AND COST ESTIMATES (Cont.)

In general, our recommendations are based on the following:

Where no street improvements are contemplated and power services are underground in split fiber duct with conduit laterals, the power service should remain without change until such time as major street repairs are necessary.

Where no street improvements are contemplated and power services are overhead, the power services should remain without change until such time as major street repairs are necessary.

Where pavement overlay only is contemplated and power services are underground in split fiber duct with conduit laterals, the power service should remain without change until such time as major street repairs are necessary.

On new streets, all services will be in a duct and manhole system.

Where a street is scheduled for repaving as part of the recommended program and power service is underground in split fiber duct with conduit laterals, the power service should be converted to a duct and manhole system, and we have included this work in our estimates.

Where a street is not to be repaved until some future date, power service being underground in split fiber duct with conduit laterals, conversion of the power service to a duct and manhole system should take place at that time. This future work is not included in our estimates.

C. TABULATION OF STREETS, PRESENT SERVICES, RECOMMENDED
SERVICES AND COST ESTIMATES (Cont.)

The feasibility of converting overhead power lines on streets to overhead power lines along rear lots was considered but found to be impractical in established residential areas. In addition to the problem of easements, construction costs, street crossings which should be underground in conduit from one back lot to the next, difficulty of maintenance, difficulty in feeding street lighting standards and other factors, the hazard to residents must be considered. Some high voltage lines, transformers and switches would be required. Telephone services present no such hazards.

D. COST ESTIMATE DETAILS

Power Costs

Power service costs for this report are figured on a general broad basis rather than on a breakdown cost for each individual item.

In general, the costs include manholes, duct banks, laterals to private property lines, main cable runs, lateral runs, transformers, etc.

Costs are broken down into three categories:

- (a) Cost to put overhead power services underground in duct and manhole system, at \$50.00 per linear foot of street.
- (b) Cost of new underground duct and manhole system on new streets, at \$45.00 per linear foot of street.
- (c) Cost to convert an underground split fiber system to an underground duct and manhole system, at \$50.00 per linear foot of street.

On existing streets where no street improvements are recommended, the cost of patching or new overlay is included in the costs shown above under (a) and (c).

Telephone Costs

Telephone service costs for this report are figured on a general broad basis rather than on a breakdown cost for each individual item.

D. COST ESTIMATE DETAILS (Cont.)

In general, the costs include manholes, duct banks, laterals to private property lines, main cable runs, lateral runs, poles, right-of-way costs, resurfacing streets, etc.

Costs are broken down into four categories:

- (a) Cost to put overhead telephone services underground in duct and manhole system, at \$25.00 per linear foot of street.
- (b) Cost of new underground duct and manhole system on new streets, at \$25.00 per linear foot of street.
- (c) Cost to convert an overhead system on a street to an overhead back lot system, at \$3.00 per linear foot of street.
- (d) Cost to convert an overhead back lot system to an overhead system on a street, at \$5.00 per linear foot of street.

Under (a) and (b) above, the cost does not include ledge excavation.

D. COST ESTIMATE DETAILS (Cont.)

Fire Alarm System Costs

1. Washington Park Boulevard - Warren St. to Humboldt Ave.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L.F.	350	\$ 10.00	\$ 3,500.00
Manhole	Ea.	1	650.00	650.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L.F.	385	1.50	<u>577.50</u>
				\$ 5,277.50
Engineering & Contingencies 20%				<u>1,055.50</u>
Total				\$ 6,333.00
Use				\$ 6,350.00

2. Washington Park Boulevard - Humboldt Ave. to Washington St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L.F.	750	\$ 10.00	\$ 7,500.00
Manhole	Ea.	2	650.00	1,300.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L.F.	825	1.50	<u>1,237.50</u>
				\$10,587.50
Engineering & Contingencies 20%				<u>2,117.50</u>
Total				\$12,705.00
Use				\$12,700.00

D. COST ESTIMATE DETAILS (Cont.)

3. Crestwood Park - Townsend to Townsend

(Work Completed)

4. Munroe St. - Hazelwood St. to Warren St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L. F.	400	\$ 10.00	\$4,000.00
Manhole	Ea.	2	650.00	1,300.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L. F.	440	1.50	<u>660.00</u>
				\$6,510.00
		Engineering & Contingencies 20%		<u>1,302.00</u>
			Total	\$7,812.00
			Use	\$7,800.00

D. COST ESTIMATE DETAILS (Cont.)

5. Munroe St. - Humboldt Ave. to Harold St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L.F.	400	\$ 10.00	\$4,000.00
Manhole	Ea.	1	650.00	650.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L.F.	440	1.50	<u>660.00</u>
				\$5,860.00
Engineering & Contingencies 20%				<u>1,172.00</u>
Total				\$7,032.00
Use				\$7,050.00

6. Townsend St. - Walnut Ave. to Harold St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L.F.	50	\$ 10.00	\$ 500.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L.F.	55	1.50	<u>82.50</u>
				\$1,132.50
Engineering & Contingencies 20%				<u>226.50</u>
Total				\$1,359.00
Use				\$1,360.00

D. COST ESTIMATE DETAILS (Cont.)

7. Dale Ave. - Walnut Ave. to Sherman St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L. F.	225	\$ 10.00	\$2,250.00
Manhole	Ea.	1	650.00	650.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L. F.	247	1.50	<u>370.50</u>
				\$3,820.50
Engineering & Contingencies 20%				<u>764.10</u>
Total				\$4,584.60
Use				\$4,600.00

8. Crawford St. - Humboldt Ave. to Elm Hill Ave.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L. F.	175	\$ 10.00	\$1,750.00
Manhole	Ea.	1	650.00	650.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L. F.	192	1.50	<u>288.00</u>
				\$3,238.00
Engineering & Contingencies 20%				<u>647.60</u>
Total				\$3,885.60
Use				\$3,900.00

D. COST ESTIMATE DETAILS (Cont.)

9. Crawford St. - Elm Hill Ave. to Warren St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L. F.	250	\$ 10.00	\$2,500.00
Manhole	Ea.	1	650.00	650.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L. F.	275	1.50	<u>412.50</u>
				\$4,112.50
Engineering & Contingencies 20%				<u>822.50</u>
Total				\$4,935.00
Use				\$4,950.00

10. Deckard St. - Humboldt Ave. to Warren St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L. F.	500	\$ 10.00	\$5,000.00
Manhole	Ea.	2	650.00	1,300.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L. F.	550	1.50	<u>825.00</u>
				\$7,675.00
Engineering & Contingencies 20%				<u>1,535.00</u>
Total				\$9,210.00
Use				\$9,200.00

D. COST ESTIMATE DETAILS (Cont.)

11. Howland St. - Humboldt Ave. to Elm Hill Ave.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L.F.	580	\$ 10.00	\$5,800.00
Manhole	Ea.	1	650.00	650.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L.F.	638	1.50	<u>957.00</u>
				\$7,957.00
Engineering & Contingencies 20%				<u>1,591.40</u>
Total				\$9,548.40
Use				\$9,550.00

12. Wabeno St. - Waumbeck St. to Wyoming St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L.F.	230	\$ 10.00	\$2,300.00
Manhole	Ea.	1	650.00	650.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L.F.	253	1.50	<u>379.50</u>
				\$3,879.50
Engineering & Contingencies 20%				<u>775.90</u>
Total				\$4,655.40
Use				\$4,650.00

D. COST ESTIMATE DETAILS (Cont.)

13. Waumbeck St. - Humboldt Ave. to Warren St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L.F.	780	\$ 10.00	\$ 7,800.00
Manhole	Ea.	2	650.00	1,300.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L.F.	858	1.50	<u>1,287.00</u>
				\$10,937.00
Engineering & Contingencies 20%				<u>2,187.40</u>
Total				\$13,124.40
Use				\$13,125.00

14. Wyoming St. - Wabeno St. to Warren St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L.F.	330	\$ 10.00	\$ 3,300.00
Manhole	Ea.	1	650.00	650.00
Fire Alarm Box & Pedestal	Ea.	1	400.00	400.00
Pedestal Base	Ea.	1	150.00	150.00
Cable	L.F.	363	1.50	<u>544.50</u>
				\$ 5,044.50
Engineering & Contingencies 20%				<u>1,008.90</u>
Total				\$6,053.40
Use				\$6,050.00

D. COST ESTIMATE DETAILS (Cont.)

Police Signal System Costs

1. Washington Park Boulevard - Humboldt Ave. to Washington St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W. I. Conduit	L. F.	700	\$10. 00	\$ 7, 000. 00
Manholes	Ea.	3	600. 00	1, 800. 00
Police Box, Light, Post	Ea.	1	1 85. 00	185. 00
Police Box Base	Ea.	1	150. 00	150. 00
Cable	L. F.	770	3. 00	<u>2, 310. 00</u>
				\$11, 445. 00
	Engineering & Contingencies	20%		<u>2, 289. 00</u>
			Total	\$13, 734. 00
			Use	\$13, 750. 00

2. Humboldt Ave. - Washington Park Boulevard to Walnut Ave.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W. I. Conduit	L. F.	550	\$10. 00	\$ 5, 500. 00
Manholes	Ea.	2	600. 00	1, 200. 00
Cable	L. F.	605	3. 00	<u>1, 815. 00</u>
				\$ 8, 515. 00
	Engineering & Contingencies	20%		<u>1, 703. 00</u>
			Total	\$10, 218. 00
			Use	\$10, 225. 00

D. COST ESTIMATE DETAILS (Cont.)

3. Townsend St. - Walnut Ave. to Harold St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L. F.	400	\$ 10.00	\$ 4,000.00
Manhole	Ea.	1	600.00	600.00
Police Box, Light, Post	Ea.	1	185.00	185.00
Police Box Base	Ea.	1	150.00	150.00
Cable	L. F.	440	3.00	<u>1,320.00</u>
				\$ 6,255.00
Engineering & Contingencies 20%				<u>1,251.00</u>
Total				\$ 7,506.00
Use				\$ 7,500.00

4. Waumbeck St. - Humboldt Ave. to Warren St.

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total</u>
3" W.I. Conduit	L. F.	1,400	\$ 10.00	\$14,000.00
Manholes	Ea.	4	600.00	2,400.00
Police Box, Light, Post	Ea.	1	185.00	185.00
Police Box Base	Ea.	1	150.00	150.00
Cable	L. F.	1,540	3.00	<u>4,620.00</u>
				\$21,355.00
Engineering & Contingencies 20%				<u>4,271.00</u>
Total				\$25,626.00
Use				\$25,625.00

E. PLAN

The plan accompanying this report shows Priority Areas No. 1, No. 2, No. 3 and No. 4. The markings in the various streets indicate only the power services and show a composite picture of both existing construction and our recommended construction as indicated in the tabulation in paragraph "C."

Washington Park
Fay, Spofford & Thorndike,
Inc.

Feasibility of placing utility services underground.

[illegible]

Washington Park
Fay, Spofford & Thorndike, Inc.
Feasibility of placing utility
services underground.

